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then the reciprocal of the distance of the two planets can be developed in the form

$$\frac{1}{\rho} = \frac{1}{2} \Sigma Z_i^{\beta} \cos (i\theta + \beta\psi),$$

where i and β extend from $-\infty$ to ∞ and $Z_i^{-\beta} = Z_i^{\beta}$.

Moreover, if z, z' denote the mean anomalies, and if the general term of the development of $\frac{1}{\rho}$ is represented by

$$X \cos (x z - i z' + \eta \omega - \eta' \omega'),$$

where X can be expressed as a definite integral involving the coefficient Z; viz. the general term of X is

$$= \frac{1}{\pi^2} \int_0^{\pi} \int_0^{\pi} Z_{i+q}^{\beta} \cos (x z - \eta v) \cos . (i z' - \eta' v')\, d z\, d z',$$

and the value of the coefficient X is obtained by means of a series of transformations effected upon this definite integral. The memoir has been published in the *Récherches Astronomiques de l'Observatoire de Kasan*, 1859.

Minor Planets (60), (61), (62).

Since the discovery by M. Chacornac of Minor Planet (59), three new Minor Planets have been discovered. As referred to by M. Leverrier (*Comptes Rendus*, 16th Oct. 1860), these are:—

Minor Planet (60), discovered by Mr. Ferguson, at Washington, on the night of the 15th Sept. The observed place was approximately,

	Washington M.T.	R.A.	N.P.D.
1860, Sept. 15	10^h 22^m 5^s	23^h 4^m 30^s·4	93° 23′ 39″

Daily motion — 54^s·0 in Right Ascension and 9′·0 in North Polar Distance. It was noted on the night of the 14th as one not on Chacornac's Charts; and on the 15th its planetary character became evident. Estimated magnitude 11.

Minor Planet (61), discovered by M. Goldschmidt on the 9th Sept., and recognised as a Planet on the 19th. See last Number of the *Monthly Notices*, where this Planet is referred to as Minor Planet (60). The name *Danaë* has been given to it.

Minor Planet (62), discovered at Berlin by Dr. Forster and M. Lesser. First observed the 14th Sept., but supposed to be M. Chacornac's Planet (59). The continuation of the observations up to the 10th Oct. showed that the Planet was really a distinct one. Estimated magnitude 11. Elements calculated

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by MM. Romberg and Tietjen, from the Berlin Observations of the 14th and 24th Sept. and 8th Oct. 1860, (see *Ast. Nach.* No. 1281, where there is also given a slightly different set of elements calculated by Dr. Seeling of the Glasgow Observatory).

Epoch, 1860, Sept. 24,51684.

Mean longitude	334° 55′ 19″	
Excentricity	9 25 52	
Longitude of perihelion	40 11 4	Mean Equinox of 1860·0.
Longitude of node	126 56 45	
Inclination	2 14 15	
Diurnal motion	636″·320	
Log. mean distance	0,497554	

The name *Erato* has been given to this planet.

Discovery of a New Comet.

In Leverrier's *Bulletins* of the 25th and 26th Oct. is contained the intelligence of the discovery of a new comet by M. Tempel at Marseilles. The following approximate place is given by M. Villarceau in the *Bulletin* of the 26th Oct.

		R.A.	Decl.
	h m	h m s	° ′
Oct. 25	15 30 Paris	10 5 18	+ 31 26

MISCELLANEOUS INTELLIGENCE.

Mr. Norman Robert Pogson has been appointed Astronomer at the Madras Presidency.

Sir John Herschel has forwarded to one of the Secretaries a letter from Prof. Erman, of Berlin, which he desires to bring before the notice of the Society. The following is the substance of the letter in question:—

"The Prussian Government contemplate erecting a bust of Bessel on the outside of the University-buildings at Königsberg, where it will range with those of other celebrities. The sculptor, Herr Siemering, who has prepared the bust from existing representations of Bessel, wishes to obtain orders for a copy or copies of his work, which is suited for erection in a public place, and is regarded by Prof. Erman as a faithful likeness. At his request, Prof. Erman has forwarded a photograph taken from the original to Sir J. Herschel, desiring

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